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 ACCESSION NUMBER: 1983:90120 CAPLUS Full-text  
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 TITLE: Poly(ethylene terephthalate) with high molecular weight  
 PATENT ASSIGNEE(S): Teijin Ltd., Japan  
 SOURCE: Jpn. Tokkyo Koho, 5 pp.  
 CODEN: JAXXAD  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
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 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 57038609	B	19820817	JP 1973-56282	19730522 <--
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## PRIORITY APPLN. INFO.:

AB Polymerization of bis(hydroxyalkyl) terephthalate is accelerated by adding di-Ph terephthalate (I) [1539-04-4] to the reaction mixture in the final stage of polymerization, sep. collecting the distillate containing phenol [108-95-2] after the I addition, and cleaning the distillation systems with PhOH solvents. Thus, transesterified product from di-Me terephthalate 194, ethylene glycol (II) 130, and Ca(OAc)<sub>2</sub> 0.176 part was heated 15 min in the presence of 0.88 part Sb2O3 and 0.082 part H3PO3 at 240-260°, heated 45 min at 260-275° and 3-760 mm, and heated 90 min at 275-280° and 0.3-3 mm recovering II (total 62 parts). I (1.9 parts) was added to the reaction mixture which was heated 60 min addnl. at 275-280° and 0.5 mm, recovering PhOH containing II in a sep. tank (0.8 parts of 24:76 PhOH-II). The reaction system was pressurized to discharge polymer [25038-59-9] having intrinsic viscosity 0.94, and the distillation system was washed with 340 parts 3:97 PhOH-I mixture, 340 parts 0.15:99.85 PhOH-I mixture, and 340 parts 0.075:99.925 PhOH-I mixture in that order.